

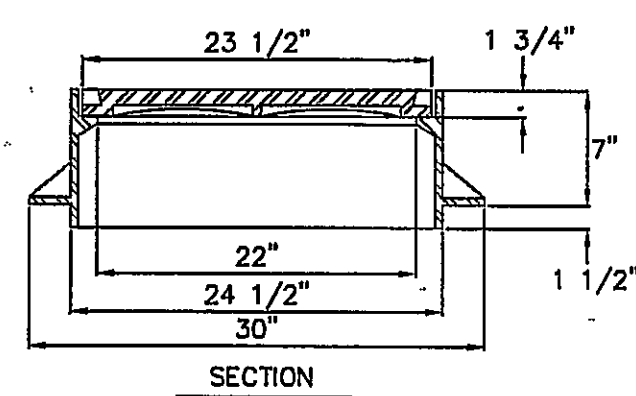
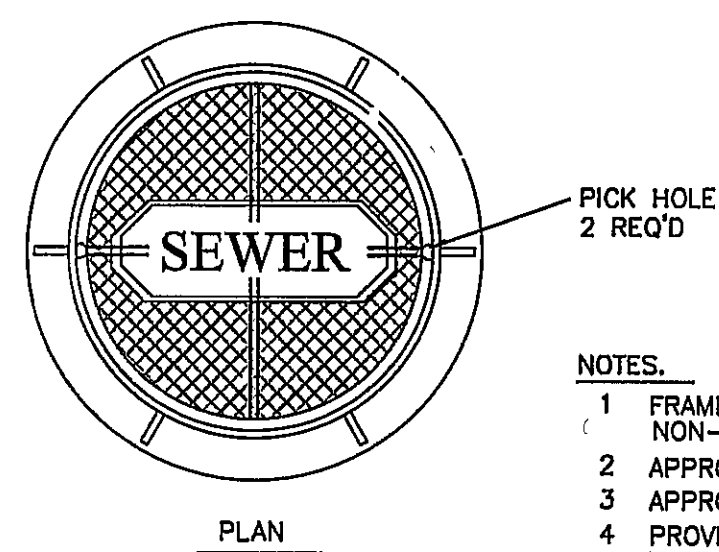
NOTE: MANHOLE STEPS SHALL NOT BE STAGGERED

NOTES:

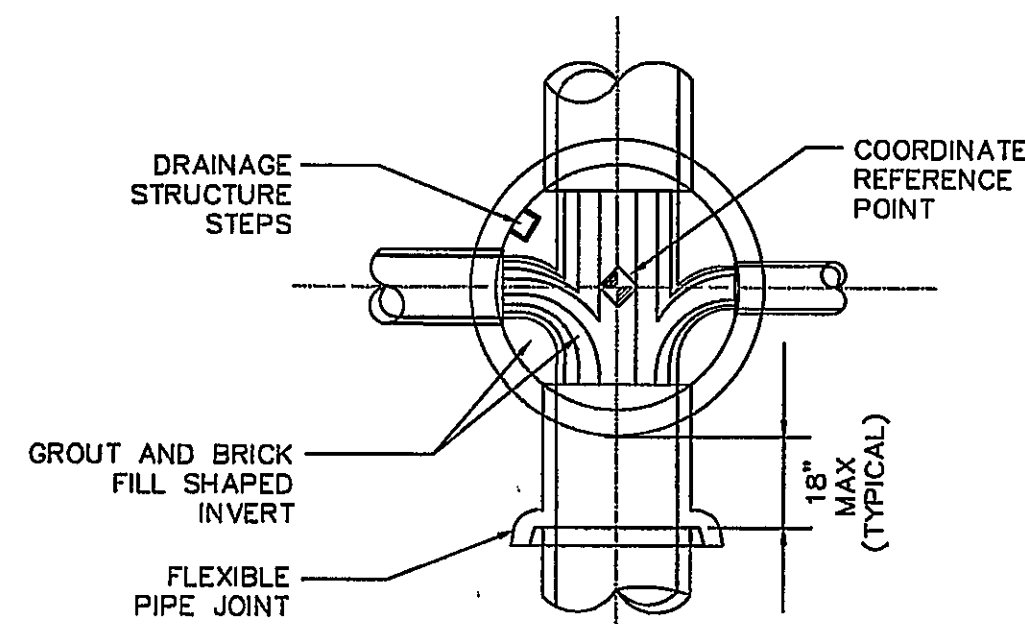
1. MANHOLE STRUCTURE STEP REQUIREMENTS. PROVIDE INDIVIDUAL STEPS, MORTARED OR CAST INTO WALLS AND CONICAL TOPS OF ALL MANHOLES AND SIMILAR STRUCTURES. ALIGN STEPS SO AS TO FORM A CONTINUOUS LADDER WITH STEPS EQUALLY SPACED VERTICALLY, NO MORE THAN 18 INCHES APART, USING STEPS HAVING A MINIMUM LENGTH OF 10-INCHES AND WHICH PROJECT A MINIMUM CLEAR DISTANCE OF FOUR INCHES FROM THE WALL. STEPS, FASTENINGS AND INSTALLATION MUST BE CAPABLE OF SUPPORTING A SINGLE CONCENTRATED LOAD OF 300 POUNDS. USE DESIGNS BASED ON IMPOSED LOADS BEING CONCENTRATED AT SUCH POINTS AS WILL CAUSE MAXIMUM STRESSES IN THE STRUCTURAL ELEMENT BEING CONSIDERED. CONSTRUCT INDIVIDUAL STEPS AS ONE PIECE, FERROUS CASTING OR PLASTIC COATED STEEL MEETING REQUIREMENTS OF ASTM C 478, D 2146 AND A 615 GRADE 60.

2. PROVIDE WATERTIGHT BOOT SLEEVE OF HIGH QUALITY SYNTHETIC RUBBER. TERMINATE THE SLEEVE AT ONE END IN A SUBSTANTIAL SERRATED FLANGE OF THE SAME MATERIAL AND CAST INTO THE WALL OF THE MANHOLE BASE TO FORM A WATER STOP. EMBED THE FLANGE IN THE WALL NO LESS THAN 4-INCHES AROUND THE ENTIRE PIPE. FIT THE OTHER END OF THE SLEEVE AROUND THE OUTSIDE OF THE PIPE AND SECURE TO THE PIPE BY MEANS OF A STAINLESS STEEL STRAP CLAMP, DRAW BOLT AND NUT. FURNISH SYNTHETIC RUBBER SUITABLE FOR USE IN SEWAGE SERVICE.

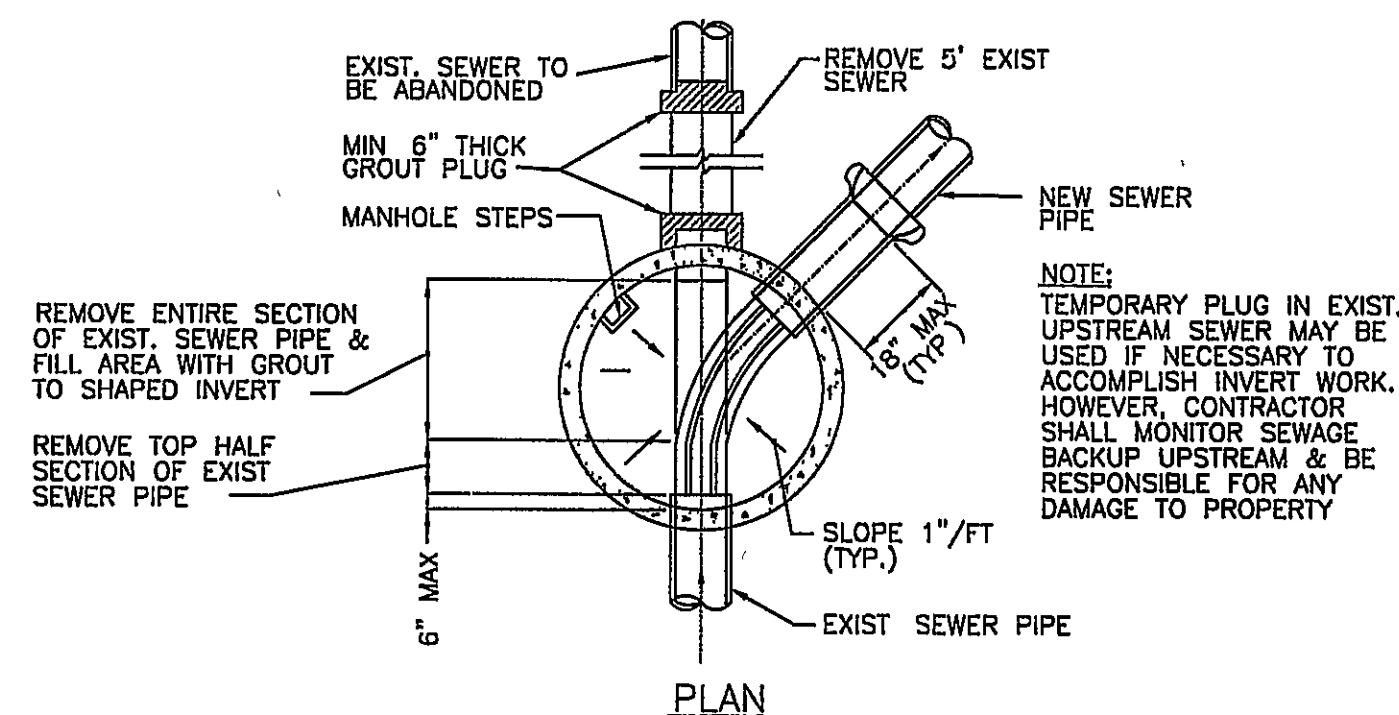
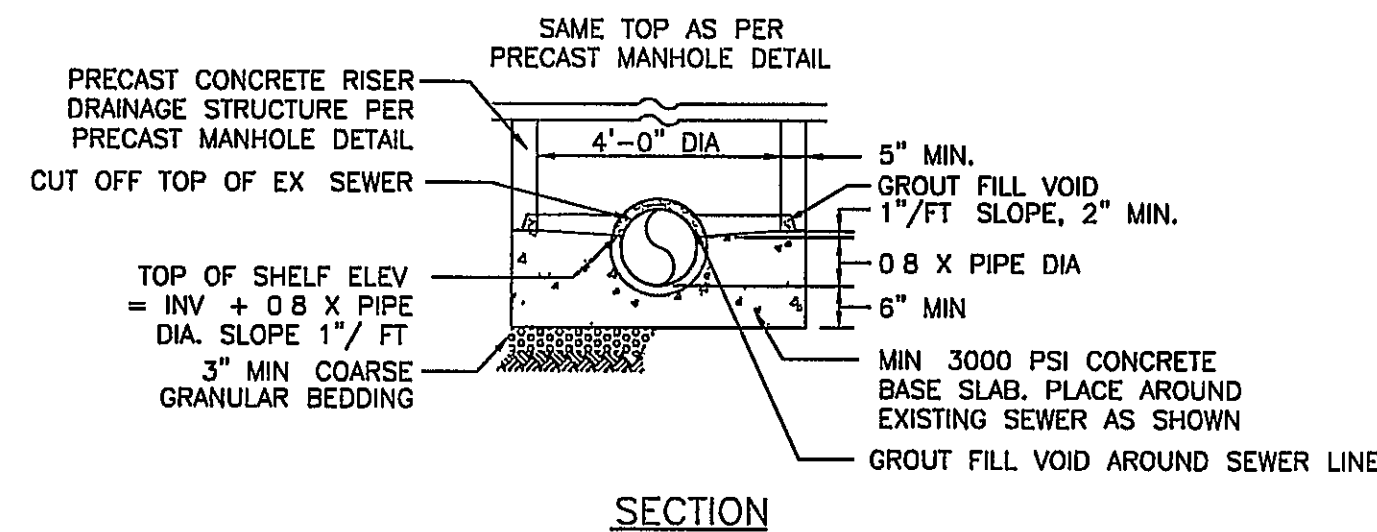
4'Ø PRECAST CONCRETE MANHOLE
NTS



C.I. MANHOLE FRAME & COVER
NTS



PRECAST MANHOLE INVERT PLAN
NTS



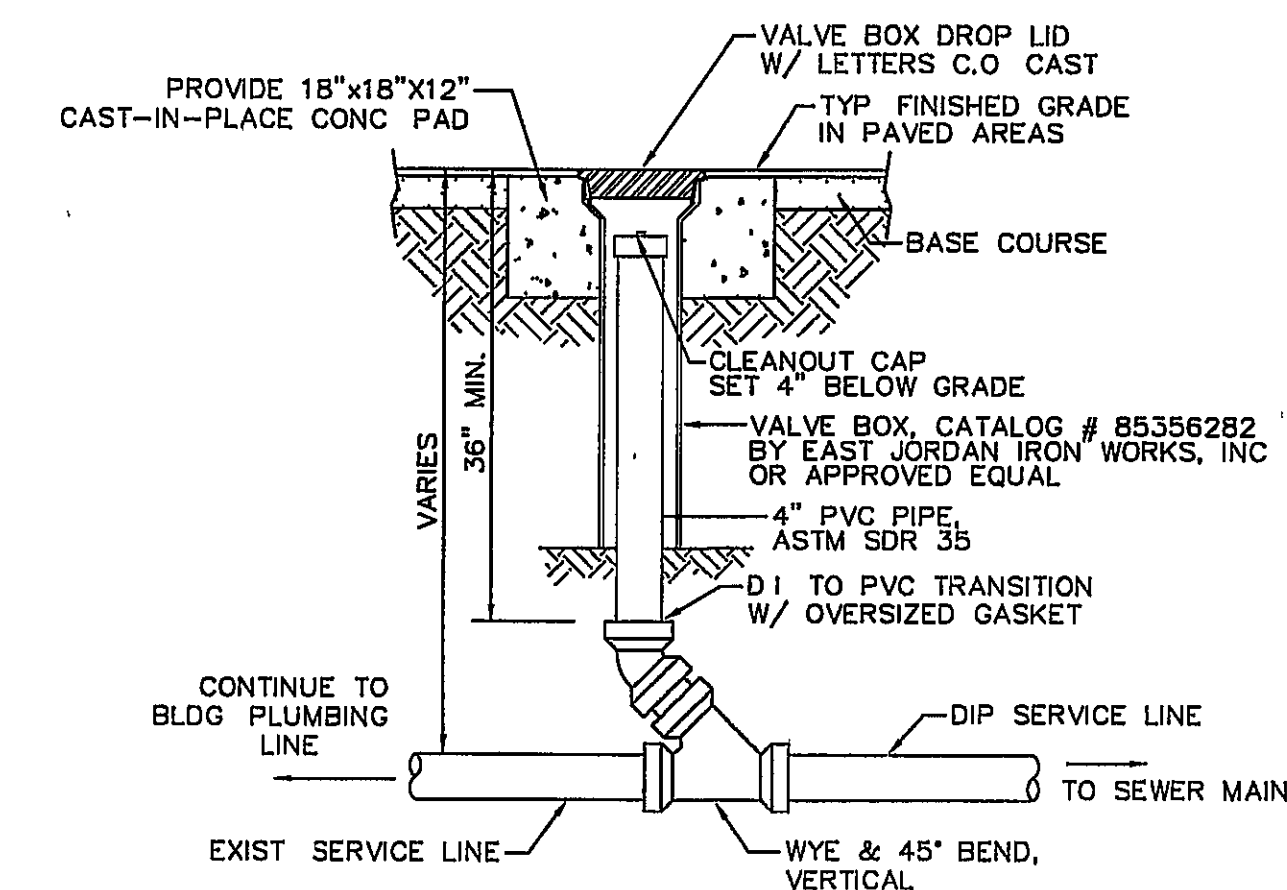
DOGHOUSE MANHOLE
NTS

NOTES:

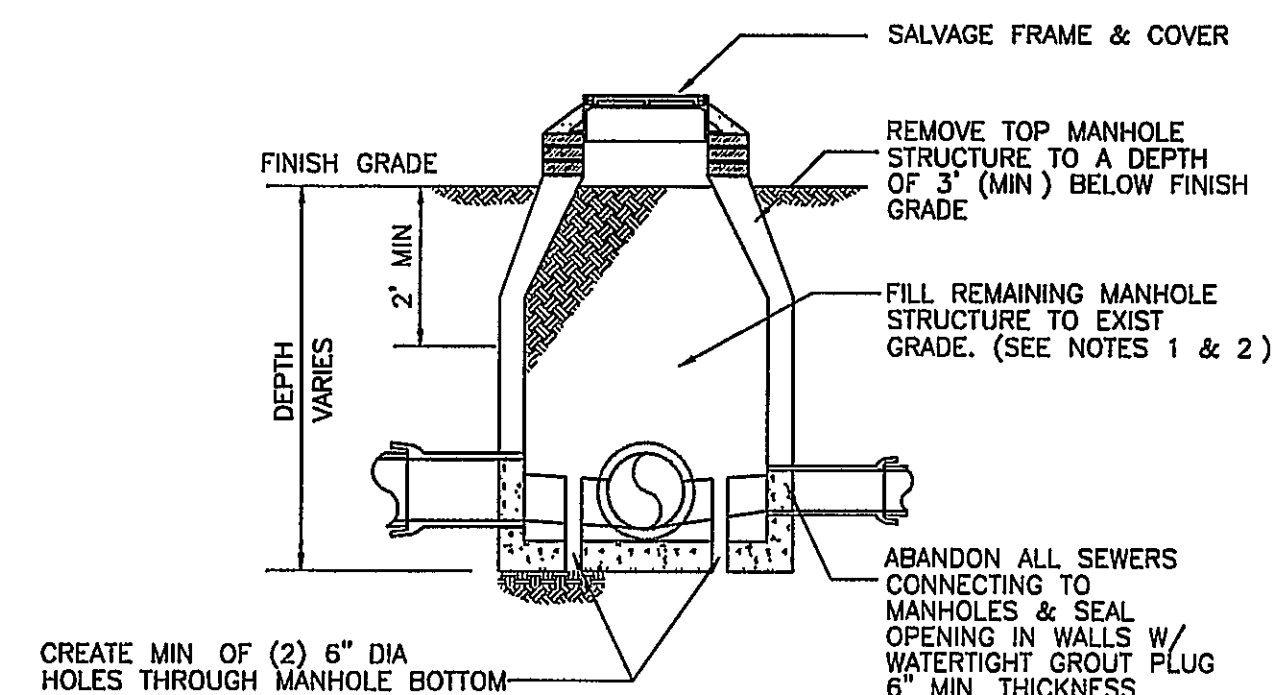
1. PROVIDE STEP TO HANDLE A MIN VERTICAL LOAD RESISTANCE OF 400 LBS AND A MIN. PULLOUT RESISTANCE OF 700 LBS

2. CONSTRUCT INDIVIDUAL STEPS AS ONE PIECE

MANHOLE STEP DETAIL
NTS



SEWER SERVICE CLEANOUT (PAVED AREAS)
NTS

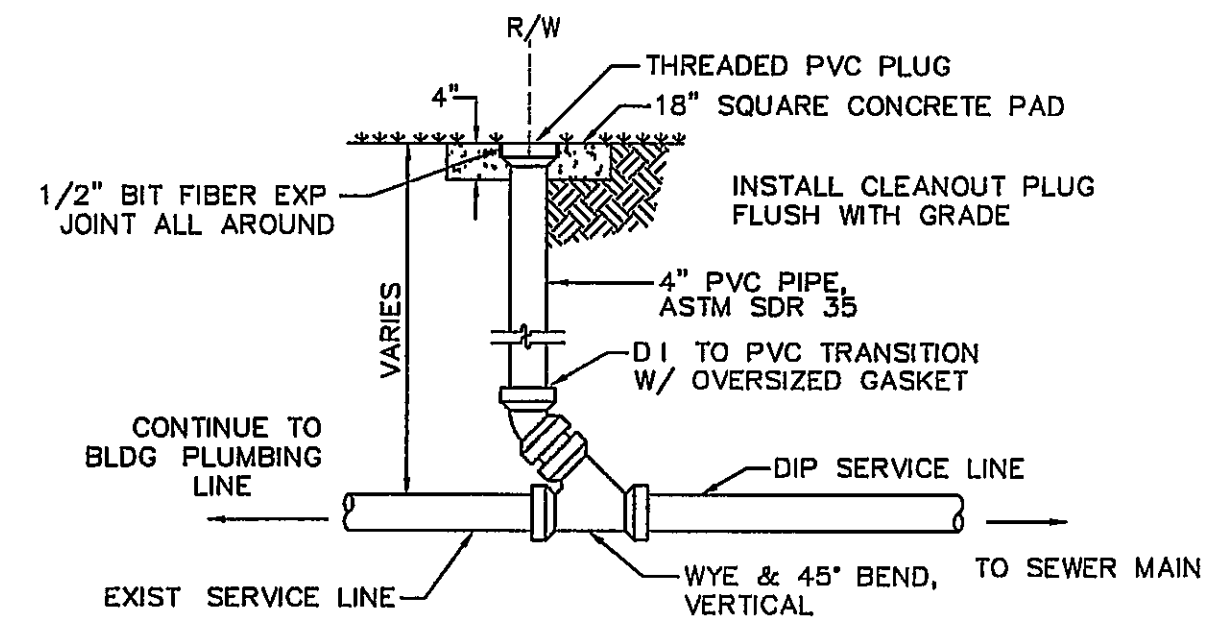


NOTES:

1. MANHOLES UNDER PAVEMENT - PLUG LINES AS SHOWN, FILL MANHOLE WITH COARSE GRANULAR MATERIAL. PATCH PAVEMENT IN ACCORDANCE WITH THE PAVEMENT PATCH DETAIL (TYPE 1)

2. MANHOLES OUTSIDE PAVEMENT - PLUG LINES AS SHOWN FILL MANHOLE WITH RUBBLE AND COMPACTED EARTH. RESTORE AREA AS REQUIRED IN SPECIFICATIONS.

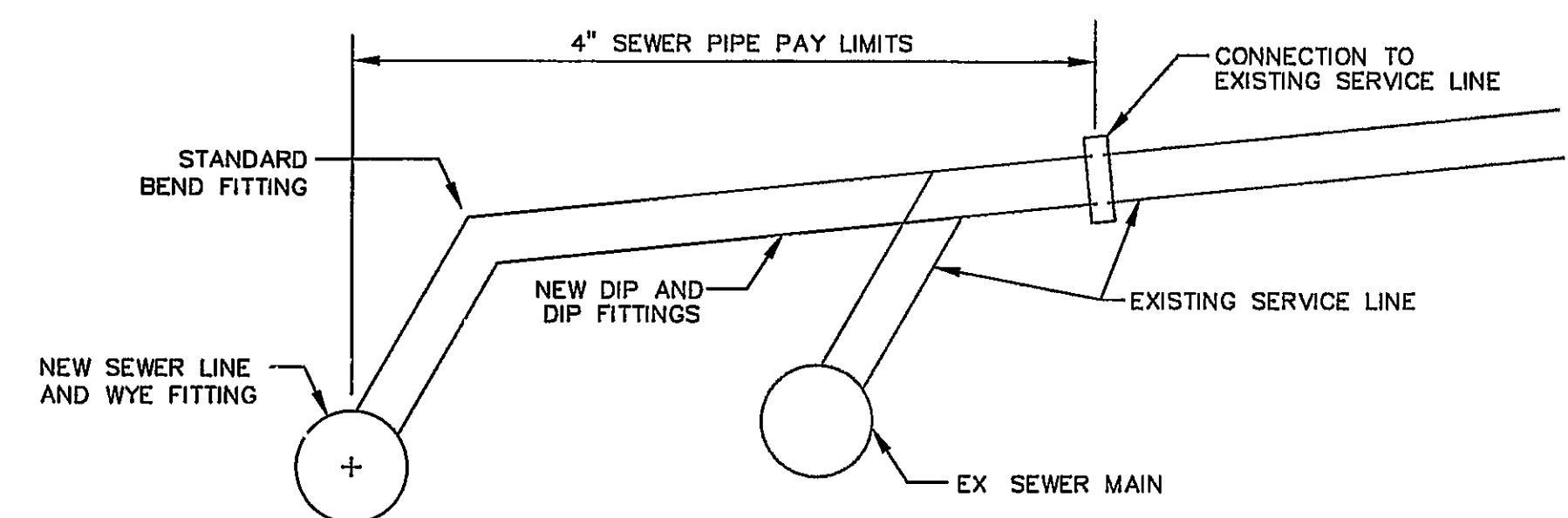
MANHOLE ABANDONMENT DETAIL
NTS



SEWER SERVICE CLEANOUT (UNPAVED AREAS)
NTS

NOTES:

1. PLACE CLEANOUT AS DIRECTED BY C.O.M. REPRESENTATIVE

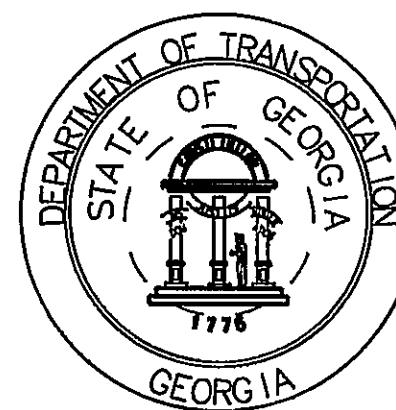


SEWER SERVICE DETAIL
NTS

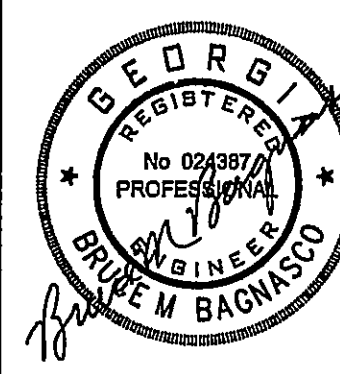
NOTES:

1. SEWER SERVICE CLEANOUT REQUIRED FOR EACH SERVICE BUT NOT SHOWN SEE SEWER SERVICE CLEANOUT DETAILS, THIS SHEET

2. CONTRACTOR TO PROVIDE TEMPORARY SERVICE LINE PLUGS AT R/W AS NEEDED TO PERFORM INFILTRATION TEST FOR NEW SANITARY SEWER



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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 2 DESIGN - TENNILLE
UTILITY RELOCATION PLANS
SANITARY SEWER
RELOCATION DETAILS
DRAWING No
44-07